

ABSTRACT OF THE DISCLOSURE

In an electric motor apparatus of the present invention, both of energized spiral wires 17A and 17B for a first system 18A and a second system 18B cooperate to rotate the rotor 25 in a normal condition, however, when it is happened an abnormal condition in one of the first system and the second system, the energized spiral wires of the other system rotate the rotor 25 so that the present invention can prevent the rotation of the electric motor 14 from stopping just after the abnormal condition in either of the systems to achieve a fail-safe function. Therefore, the present invention can decrease a number of parts in comparison with the conventional apparatus having two actuators to restrain an increase of the cost and to achieve a compact structure.